In the Claims:

Please amend the claims as follows:

1. *(currently amended)* A method ~~for sharpening colours in an image~~ comprising:

~~at least a first and a second colour component, the~~ locating pixels comprising information of [[the]] a first colour component of an image ~~being located~~ at least partly in locations different from the pixels comprising information of [[the]] a second colour component~~, in which method~~ of said image;

- interpolating said first colour component and said second colour component;

~~are interpolated, and~~ sharpening at least said first colour component by:

- computing the change of the first colour component in at least two different directions to obtain at least two original change values,
- selecting at least a maximum value and a minimum value to obtain at least two change values based on said at least two original change values, and
- determining a ratio based on said change values; and

- ~~is sharpened,~~ ~~**wherein**~~ controlling the sharpening of said second colour component ~~is controlled on the basis of~~ based on the sharpening of said first colour component.

2. *(canceled)*

3. *(currently amended)* The method according to claim [[2]] 1, **wherein** based on said change values, the ratio is determined to be computed between a first change value and another change value.

4. *(original)* The method according to claim 3, **wherein** said first change value is the smaller of the absolute values of the selected minimum and maximum values.

5. *(original)* The method according to claim 4, **wherein** said other change value is the larger of the absolute values of the selected minimum and maximum values.

6. *(original)* The method according to claim 4, **wherein** said other change value is the absolute value of an original change value that is, in order of the original change values, closer to the value having a larger absolute value of the selected minimum and maximum values than to the value having a smaller absolute value.

7. *(currently amended)* The method according to claim [[2]] 1, **wherein** the determined ratio is used to control the degree of sharpening of the first colour component.

8. *(currently amended)* The method according to claim 7, **wherein** [[for]] the control comprises:

- selecting at least one limit value ~~is selected~~, and
- comparing the determined ratio ~~is compared~~ with at least one limit value, wherein the result of the comparison is used to control the sharpening of the first colour component.

9. *(original)* The method according to claim 8, **wherein** the first colour component is sharpened, if said ratio is smaller than said limit value.

10. *(currently amended)* The method according to claim 7, **wherein** ~~for that for~~ the control comprises:

- selecting at least a first limit value and a second limit value ~~are selected~~,

- comparing the determined ratio ~~is compared~~ with said first and second limit values, wherein the result of the comparison is used to control the sharpening of the first colour component.

11. *(currently amended)* The method according to claim 10, **wherein** said ~~comparison~~ comparing is used to determine the intensity of the sharpening, ~~in such a way that~~ comprising:

- maximizing the sharpening if the ratio of the comparing is smaller than the first limit value, ~~the sharpening is maximized,~~
- sharpening by an amount smaller than the maximum value if the ratio of the comparing is within the value range defined by the first and the second limit values, ~~a sharpening smaller than the maximum is used,~~ and
- not sharpening ~~in other cases,~~ the first colour component ~~is left unsharpened~~ in other cases.

12. *(original)* The method according to claim 1, **wherein** the sharpening of said second colour component is based on the extent of the change caused by the sharpening of the first colour component on the first colour component.

13. *(original)* The method according to claim 12, **wherein** a reference value is determined, and that the sharpening value of the first colour component is added to said second colour component to sharpen said second colour component, if the extent of the change caused by the sharpening on the first colour component is smaller than or equal to a determined reference value.

14. *(original)* The method according to claim 13, **wherein** a reference value is determined, and that the sharpening of said second colour component is proportioned to the neighbour pixels of the second colour component, if the extent of the change

caused by the sharpening on the first colour component is greater than the determined reference value.

15. *(original)* The method according to claim 1, **wherein** the method is used for sharpening at least two other colour components.

16. *(original)* The method according to claim 1, **wherein** the first colour component is the one with the greatest number of pixels and/or the greatest effect on the luminance of the image.

17. *(original)* The method according to claim 1, **wherein** the sharpening is amplified at the pixels representing an edge.

18. *(original)* The method according to claim 1, **wherein** the sharpening is limited, if the change caused by the sharpening is greater than that determined.

19. *(currently amended)* The method according to claim 1, **wherein** the colour ~~component belongs~~ components belong to a colour system which has been selected from the group RGB, CMY, CMYK, HSI, or YUV.

20. *(currently amended)* A method comprising:

- [[for]] processing digital signals in an image comprising ~~at least one~~ a plurality of colour ~~component~~ components, ~~**wherein** for processing a colour component,~~
- selecting only one of said colour components for a sharpening process,
- computing the change of the selected colour component ~~is computed~~ in at least two different directions to obtain at least two original change values,
- selecting, from the computed original change values, at least a maximum value and a minimum value ~~are selected~~ to obtain at least two change values,

- determining a ratio between a first change value and another change value, wherein said first change value is the smaller of the absolute values of the selected minimum and maximum values and said another change value is any of the remaining original change values ~~a ratio is determined based on said change values~~.

21. *(currently amended)* The method according to claim 20, **wherein** ~~the ratio is determined to be computed between a first change value and another change value~~ said another change value is the larger of the absolute values of the selected minimum and maximum values.

22. *(currently amended)* The method according to claim [[21]] 20, **wherein** said ~~first~~ another change value is the ~~smaller of the~~ absolute ~~values~~ value of an original change value that is, in order of the original change values, closer to the value having a larger absolute value of the selected minimum and maximum values than to the value having a smaller absolute value.

23. *(canceled)*

24. *(canceled)*

25. *(currently amended)* The method according to claim 20, **wherein** the determined ratio is used to control the degree of processing of the selected colour component.

26. *(currently amended)* The method according to claim 25, **wherein** [[for]] the control comprises:

- selecting at least one limit value ~~is selected~~,

- comparing the determined ratio ~~is compared~~ with at least one limit value, wherein the result of the comparison is used to control the processing of the first colour component.

27. *(currently amended)* The method according to claim 26, **wherein** the [[first]] selected colour component is processed, if said ratio is smaller than said limit value.

28. *(currently amended)* The method according to claim 25, **wherein** [[for]] the control comprises:

- selecting at least a first limit value and a second limit value ~~are selected~~,
- comparing the determined ratio ~~is compared~~ with said first and second limit values, wherein the result of the comparison is used to control the processing of the [[first]] selected colour component.

29. *(currently amended)* The method according to claim 28, **wherein** said ~~comparison~~ comparing is used to determine the intensity of the sharpening, ~~in such a way that~~ comprising:

- maximizing the sharpening if the ratio of the comparing is smaller than the [[first]] selected limit value, ~~the processing is maximized,~~
- sharpening by an amount smaller than the maximum value if the ratio of the comparing is within the value range defined by the first and the second limit values, ~~a processing smaller than the maximum is used,~~ and
- ~~in other cases,~~ not sharpening the [[first]] selected colour component ~~is left unprocessed~~ in other cases.

30. *(currently amended)* The method according to claim 20, **wherein** the colour ~~component belongs~~ components belong to a colour system which has been selected from the group RGB, CMY, CMYK, HSI, or YUV.

31. *(canceled)*

32. *(previously presented)* A digital filter, for processing digital signals in an image comprising at least one colour component, **wherein** the digital filter is arranged to implement the method of claim 20.

33. *(currently amended)* A system ~~for sharpening colours in an image with at least a first and a second colour component, and the~~ comprising:

~~pixels comprising information about the first colour component are placed at least partly in different locations than the pixels comprising information of the second colour component, which system comprises means for interpolating said~~

- an interpolator configured to interpolate a first colour component and [[said]] a second colour component of an image having pixels comprising information about the first colour component placed at least partly in different locations than the pixels comprising information of the second colour component, and

~~means for performing sharpening,~~

- a sharpening unit configured to sharpen at least said first colour component, said sharpening unit configured to compute the change of the first colour component in at least two different directions to obtain at least two original values, configured to select, from the computed original change values, at least a minimum value and a maximum value to obtain at least two change values based on said at least two original change values, and configured to determine a ratio based on said change values,

wherein the ~~system also comprises means for controlling~~ sharpening unit is also configured to control the sharpening of said second colour component ~~on the basis of~~ based on the sharpening of said first colour component.

34. *(canceled)*

35. *(currently amended)* The system according to claim 33, **wherein** the ~~means for determining~~ sharpening unit configured to determine the ratio is arranged to compute the ratio between a first change value and another change value.

36. *(original)* The system according to claim 34, **wherein** the system is arranged to use the computed ratio for controlling the degree of sharpening of the colour component.

37. *(currently amended)* The system according to claim 36, **wherein** the system ~~also comprises means~~ is also configured

- ~~for selecting~~ to select at least a first limit value and a second limit value,
- ~~for comparing~~ to compare the determined ratio with said first and second limit values, wherein the result of the comparison is arranged to be used to control the sharpening of the first colour component.

38. *(currently amended)* A device for forming an image, ~~which comprises means for sharpening~~ comprising:

- a sharpening unit configured to sharpen colours in an image with at least a first colour component and a second colour component, [[and]] the image comprising pixels comprising information about the first colour component being placed at least partly in different locations than [[the]] pixels comprising information of the second colour component, said sharpening unit configured to compute the change of the first colour component in at least two different directions to obtain at least two original values, to select, from the computed original change values, at least a minimum value and a maximum value to obtain at least two change values, based on said at least two original change values, and to determine the ratio based on said change values,

~~which device comprises means for interpolating~~

- an interpolator configured to interpolate said first colour component and said second colour component, and ~~means for performing sharpening,~~

wherein the ~~device also comprises means for controlling the~~ sharpening unit is also configured to control sharpening of said second colour component based on ~~the basis of~~ the sharpening of said first colour component.

39. *(canceled)*

40. *(currently amended)* The device according to claim 39, **wherein** the ~~means for determining~~ sharpening unit configured to determine the ratio is arranged to compute the ratio between a first change value and another change value.

41. *(original)* The device according to claim 39, **wherein** the device is arranged to use the computed ratio for controlling the degree of sharpening of the colour component.

42. *(currently amended)* The device according to claim 41, **wherein** the device ~~also comprises means~~ is also configured

- ~~for selecting~~ to select at least a first limit value and a second limit value,
- ~~for comparing~~ to compare the determined ration with said first and second limit values, wherein the result of the comparison is arranged to be used to control the sharpening of the first colour component.

43. *(original)* The device according to claim 38, **wherein** the device comprises means for mobile communication.

44. *(currently amended)* A storage [[means]] unit for storing [[a]] computer software, ~~product, which~~ wherein the computer software comprises computer commands for

sharpening colours in an image with at least a first and a second colour component, and [[the]] pixels comprising information about the first colour component being placed at least partly in different locations than [[the]] pixels comprising information of the second colour component, which computer software ~~product~~ comprises computer commands for interpolating said first colour component and said second colour component, and computer commands for performing sharpening of at least said first colour component, said computer commands including commands,

- for computing the change of the first colour component in at least two different directions to obtain at least two original change values,
- for selecting at least a minimum value and a maximum value to obtain at least two change values based on said at least two original change values, and,

for determining a ratio based on said change values,

wherein the computer software ~~product~~ also comprises computer commands for controlling the sharpening of said second colour component based on ~~the basis of~~ the sharpening of said first colour component.

45. *(canceled)*

46. *(currently amended)* A computer software product comprising a storage unit for storing computer commands for execution by a processor, such that when executed said commands are for sharpening colours in an image with at least a first and a second colour component, and [[the]] pixels comprising information about the first colour component being placed at least partly in different locations than [[the]] pixels comprising information of the second colour component, which computer software product comprises computer commands for interpolating said first colour component and said second colour component, and computer commands for performing sharpening of at least said first colour component, said computer commands including commands

- for computing the change of the first colour component in at least two different directions to obtain at least two original change values,
- for selecting at least a minimum value and a maximum value to obtain at least two change values based on said at least two original change values, and,
- for determining a ratio based on said change values,

wherein the computer software product also comprises computer commands for controlling the sharpening of said second colour component based on ~~the basis of~~ the sharpening of said first colour component.

47. *(new)* A system comprising:

- means for interpolating a first colour component and a second colour component of an image having pixels comprising information about the first colour component placed at least partly in different locations than the pixels comprising information of the second colour component, and
- means for sharpening at least said first colour component, for computing the change of the first colour component in at least two different directions to obtain at least two original values, and for selecting from the computed original change values, at least a minimum value and a maximum value to obtain at least two change values based on said at least two original change values, and for determining a ratio based on said change values,

wherein the means for sharpening sharpens said second colour component based on the sharpening of said first colour component.